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FlyBy Math^{TM} Alignment
Academic Content Standards - Mathematics

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Mathematical Processes Standard	
Benchmarks Grades 5-7	***FlyBy Math*^{TM} Activities**
B. Apply and adapt problem-solving strategies to solve a variety of problems, including unfamiliar and non-routine problem situations.	--Use tables, graphs, and equations to solve aircraft conflict problems.
C. Use more than one strategy to solve a problem, and recognize there are advantages associated with various methods.	--Use tables, graphs, and equations to solve aircraft conflict problems. --Explain and justify solutions regarding the motion of two airplanes using the results of plotting points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system.
D. Recognize whether an estimate or an exact solution is appropriate for a given problem situation.	--Predict outcomes and explain results of mathematical models and experiments.
F. Use inductive thinking to generalize a pattern of observations for particular cases, make conjectures, and provide supporting arguments for conjectures	--Use tables, bar graphs, line graphs, equations, and a Cartesian coordinate system to draw conclusions.
G. Relate mathematical ideas to one another and to other content areas; e.g., use area models for adding fractions, interpret graphs in reading, science and social studies.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
H. Use representations to organize and communicate mathematical thinking and problem solutions.	--Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.
I. Select, apply, and translate among mathematical representations to solve problems; e.g., representing a number as a fraction, decimal or percent as appropriate for a problem.	--Choose among tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.
J. Communicate mathematical thinking to others and analyze the mathematical thinking and strategies of others.	--Predict outcomes and explain results of mathematical models and experiments.